



**State of Utah**  
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 DIVISION OF OIL, GAS AND MINING

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February 27, 1997

TO: File #2

THRU: Joe Helfrich, Permit Supervisor *JH*

FROM: Steven M. Johnson, *SMJ*

RE: Operation Ditch Designs, Hiawatha, U.S. Fuel, ACT/007/011-97A, File #2, Carbon County, Utah

**SYNOPSIS:**

The Division has completed a review of the Hiawatha mine Mining and Reclamation Plan (MRP). During this review the Division discovered several deficiencies in the MRP which resulted in a Division Order, DO97A. One of the deficiencies found in this review included the missing designs for operational ditches. Prior to receiving the Division Order U.S. Fuel complete and submitted an amendment to the MRP which would correct this error. This memorandum includes a technical analysis of the operational ditch amendment.

**TECHNICAL ANALYSIS:**

**OPERATION HYDROLOGIC INFORMATION**

**Diversion Designs**

**ANALYSIS:**

U.S. Fuel has drawn Maps F-VII-19, F-VII-20 and F-VII-21 to show the watersheds that feed each diversion, and written Appendix VII-19. This appendix shows a typical ditch design, including analysis of runoff from each watershed, and a summary of each ditches dimensions and capacities. This summary is found in Table 2 to appendix VII-19.

The amendment is satisfactory for addressing operation diversion designs. However, there are still other factors that have not been addressed from DO97A.

**FINDINGS:**

This amendment is complete and accurate for correcting the operational ditch design portion of DO97A.

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**RECOMMENDATION:**

This amendment should be approved for inclusion in the MRP and used toward answering the requirements of DO97A.

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